

Title (en)  
POSITIVE CHARACTERISTIC THERMISTOR AND MANUFACTURING METHOD THEREFOR

Publication  
**EP 0500955 A4 19921209 (EN)**

Application  
**EP 91915618 A 19910910**

Priority  
JP 23931790 A 19900910

Abstract (en)  
[origin: WO9204720A1] A positive characteristic thermistor, wherein the outer periphery of a first electrode including a metal other than silver as its main component is positioned on the inside of the outer periphery of the main body of this thermistor, and is made to coincide with the outer periphery of a second electrode which includes silver as its main component and formed on the first electrode or to be placed on the inside of the outer periphery of the second electrode. Therefore, there is no possibility of short circuit due to migration. Particularly, since the first electrode layer coincides with the outer periphery of the second electrode or is placed on its inside, the first electrode layer almost is not exposed except the vertical part of its end surfaces, and the first electrode layer can be prevented from oxidizing. Further, there is no possibility of short circuit due to migration through the surface of the first electrode layer and the reliability can be improved.

IPC 1-7  
**H01C 7/02**

IPC 8 full level  
**H01C 7/02** (2006.01); **H01C 1/14** (2006.01)

CPC (source: EP US)  
**H01C 1/1406** (2013.01 - EP US)

Citation (search report)

- [X] EP 0235749 A2 19870909 - NIPPON DENSO CO [JP]
- [A] GB 2146488 A 19850417 - TDK CORP [JP]
- [A] US 3975307 A 19760817 - MATSUO YOSHIHIRO, et al
- [X] PATENT ABSTRACTS OF JAPAN vol. 14, no. 170 (E-913)30 March 1990 & JP-A-02 027 709 ( SUMITOMO METAL )
- [A] PATENT ABSTRACTS OF JAPAN vol. 14, no. 67 (E-885)7 February 1990 & JP-A-01 287 902 ( MURATA MFG )
- [A] PATENT ABSTRACTS OF JAPAN vol. 11, no. 191 (M-600)19 June 1987 & JP-A-62 016 163 ( MITSUBISHI ELECTRIC )
- See references of WO 9204720A1

Cited by  
EP0603565A3; EP0704888A3; EP0749132A4; EP3585134B1

Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**WO 9204720 A1 19920319**; EP 0500955 A1 19920902; EP 0500955 A4 19921209; JP H04118901 A 19920420; KR 927002534 A 19920904; US 5289155 A 19940222

DOCDB simple family (application)  
**JP 9101202 W 19910910**; EP 91915618 A 19910910; JP 23931790 A 19900910; KR 920701018 A 19920430; US 85564292 A 19920506